No.



9700278

## THE UNITED STAYIES OF ANTERIOR

TO ALL TO WHOM THESE PRESENTS SHALL COME;

# Genetics Corporation

DETERMS, THERE HAS BEEN PRESENTED TO THE

### Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED, PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICHIS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS  $\textbf{REQUIREMENTS} \ of \ LAW \ in \ \textbf{SUCTION} \ and \ \textbf{Each} \ and \ \textbf{Provided have been complied} \ with, \ \textbf{and} \ \textbf{The title thereto}$ IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED-TO-BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS. HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR OPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT IY THEREFROM. TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS D, 7 U.S.C. 2321 ET SEO.)

**ALFALFA** 

'DK 140'

In Testimony Whereof I have hereunto set my hand and caused the seal of the Hant Haristy Urotection Office to be affixed at the City of Washington, D.C. this thirtieth day of July in the year of our Lord one thousand nine hundred and ninety-nine.

REPRODUCE LOCALLY. Include form number and date on all reproductions.		FORM APPROVED - OMB NO. 0581-005
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE SCIENCE DIVISION - PLANT VARIETY PROTECTION OFFICE	The following statements are m 1974 (5 U.S.C. 552a).	ade in accordance with the Privacy Act o
APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE (Instructions and information collection burden statement on reverse)	Application is required in order certificate is to be issued (7 U.S. until certificate is issued (7 U.S.	to determine if a plant variety protection.C. 2421). Information is held confidential.C. 2426).
1. NAME OF APPLICANT(S) (as it is to appear on the Certificate)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
DEKALB Genetics Corporation		DK140
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	E TO SPILOUS S. A. A.	
3100 Sycamore Road	6. TELEPHONE (include area code) (815) 758-3461	FOR OFFICIAL USE ONLY
DeKalb, IL 60115	0 514 5 / /	E
	6 FAX (include area code) (815) 758-4106	DATE 04/17/97
7. GENUS AND SPECIES NAME 8. FAMILY NAME (Bota	nical)	G Flung and examination rec
Medicago Sativa Leguminos	ae	2450.00
9. CROP KIND NAME (Common name) Alfalfa		R 04/15/97
0. IF THE APPLICANT NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partners  Corporation	ship, association, etc.) [Common name]	CERTIFICATION FIE
t. IF INCORPORATED, GIVE STATE OF INCORPORATION Deleware	12. DATE OF INCORPORATION June 15, 1988	E DATE WILLIAM
3. NAME AND ADDRESS OF APPLICANT REPRESENTATIVE(S), IF ANY, TO SERVE IN THIS APPLICATION	AND RECEIVE ALL PAPERS	14. TELEPHONE (include area code)
Robert Mark Lawson & Robert E. F DEKALB Genetics Corporation DEKALB Gene 3100 Sycamore Road 3100 Sycamo DeKalb, IL 60115 DeKalb, IL	etics Corporation ore Road	(815) 758-3461  16. FAX (include area code)  (815) 758-4106
6. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)  a.   Exhibit A. Origin and Breeding History of the Variety  b.   Exhibit B. Statement of Distinctness		
e. 💢 Exhibit C. Objective Description of the Variety d. 💢 Exhibit D. Additional Description of the Variety		
e.	issue culture will be deposited and maintain	ed in a public repository)
G. Triling and Examination Fee (\$2,450), made payable to "Treasurer of the United States" (Mail to Pt	/POI	
DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY, AS .  ☐ YES (If "yes," answer items 18 and 19 below)  ☐ YES (If "yes," answer items 18 and 19 below)		on 83(a) of the Plant Variety Protection Act/?
. DOES THE APPLICANT SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS?  \[ \text{YES} \qquad \text{NO} \qquad \text{NO} \]	. IF "YES" TO ITEM 18, WHICH CLASSES	OF PRODUCTION BEYOND BREEDER SEED?
. HAS THE VARIETY OR A HYBRID PRODUCED FROM THE VARIETY BEEN RELEASED, USED, OFFERED FO	OR SALE, OR MARKETED IN THE U.S. OR C	THER COUNTRIES?
. The applicant(s) declare that a viable sample of basic seed of the variety will be furnished with application a applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and main the undersigned applicant(s) is lare) the owner(s) of this sexually reproduced or tuber propagated plant varieties.	intained for the duration of the certificate.	
Applicant(s) is(are) informed that false representation herein can jeopardize protection and result in penalties.	ct.	
NATURE OF APPLICANT 10 WAS SIGNATURE SIGNATURE	RE OF APPLICANT (Owner(s))	
AE (Please print or type)  Robert Mark Lawson	ase print or type)	· · · · · · · · · · · · · · · · · · ·
Research, Director 4/9/97	OR TITLE	DATE
7 - 7		

#### **PVP APPLICATION - DK140 ALFALFA**

## **EXHIBIT A -** Origin and Breeding History

DK140 is a synthetic variety with 18 parent clones. Parents were selected based on clonal and/or progeny tests for forage yield, forage quality, fall dormancy reaction, persistence, pest resistance and multifoliolate leaf expression from breeding populations previously selected for resistance to one or more of the following pests: bacterial wilt, Fusarium wilt, Verticillium wilt, anthracnose (race 1), Phytophthora root rot, Aphanomyces root rot (race 1), and spotted alfalfa aphid. A combination of genotypic and phenotypic recurrent selection was used in the development of this variety. The parental populations from which all clones were derived trace to the following cultivars: Sterling (30%), Excalibur II (25%), 330 (20%), Rushmore (20%) and, LegenDairy (5%).

Breeder seed (Syn1) was produced on parent clones near Nampa, ID in 1994. Breeder seed was harvested as the bulk from all plants. The breeder has produced sufficient foundation seed (Syn2 or Syn3) for the projected life of the variety. Production of Syn3 foundation seed requires the consent of the breeder.

Alfalfa varieties are heterogeneous populations. Flower color and fall dormancy reaction were observed on 100 random plants at the Syn1, Syn2 and Syn3 generations. The population mean and variance for these traits was not significantly different over the three generations. No novel variants for any trait were observed during the three generations of seed increase. Forage yield was evaluated over multiple locations for both the Syn1 and Syn2 generations. Forage yield potential (expressed as percent of the check mean) was similar for both generations.

### PVP APPLICATION - DK140 ALFALFA, CONTINUED

## **EXHIBIT B** - Novelty Statement

This variety can be distinguished from others in the crop by using a number of different varietal traits. The variety most similar to DK140 is DK133. DK140 is distinct from DK133 in the following characters: Aphanomyces root rot resistance-- DK140 is rated highly resistant (HR) whereas, DK133 is rated resistant (R); spotted alfalfa aphid resistance--DK140 is rated highly resistant (HR) whereas, DK133 is rated as resistant (R).

Aphanomyces root rot resistance -evaluated by Forage Genetics, West Salem, WI 1994 Lab Test or Vista, West Salem, WI 1990 Lab Test:

Entry	% Resistant Plants	% Resistance Adjusted				
<b>DK140 (HR)</b> WAPH-1 (R) Agate (S)	55 50 2	55 50 2	(Forage Genetics, 1994)			
Test mean L.S.D. 0.05 C.V.(%)	48.8 12.5 25.9					
DK133 (R) WAPH-1 (R) Agate (S)	36 40 0	45 50 0	(Vista, 1990)			
Test mean L.S.D. 0.05 C.V.(%)	34.3 10.6 24.5					

Aphanomyces root rot resistance -evaluated by Forage Genetics, West Salem, WI 1997 Lab Test:

Entry	% Resistant Plants	% Resistance Adjusted
DK140 (HR)	57	55
DK133 (R)	43	41
WAPH-1 (R)	48	50
Agate (S)	1	1
Test mean	46.4	
L.S.D. 0.05	18.3	
C.V.(%)	29.0	

## PVP APPLICATION - DK140 ALFALFA, CONTINUED

## **EXHIBIT B** - Novelty Statement (Continued):

Spotted alfalfa aphid resistance - evaluated by Forage Genetics, Nampa, ID 1996 Lab Test or Vista, West Salem, WI 1989 Lab Test:

Entry	% Resistant Plants	% Resistance Adjusted
Test 1. Forage Gen	etics, 1996	
DK140 (HR)	43	56
CUF 101 (HR)	48	60
Arc (S)	2	3
Test mean	31.9	
L.S.D. 0.05	12.6	
C.V.(%)	24.3	
Test 2. Vista, 1989		
DK133 (R)	39	41
Baker (HR)	48	50
Ranger (S)	0	0
Test mean	28.0	
L.S.D. 0.05	13.2	
C.V.(%)	24.5	•

## U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE BELTSVILLE, MARYLAND 20705

## **OBJECTIVE DESCRIPTION OF VARIETY**

Forage Genetics 9/95 10/95 10.2 5.1 8.0 11.3 2.  CUF 101, Mospa 69, Mesilla, Lahontan, Du Poits, Saranac, Ranger, Vernal, or Norseman as appropriate.  peetly scoring system used: Inches of regrowth  5 Fall Growth Habit (Determined from Fall Dormancy Trials) 1 = Erect (CUF 101) 7 = Semidecumbent (Vernal) 9 = Decumbent (Norseman) 9 = Decumbent (Norseman) 5 = Intermediate (Saranac) 7 = Slow (Vernal)  3 = Sart (Saranac) 5 = Intermediate (Ranger) 7 = Slow (Vernal)  AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 = North Central 5 = Moderately Winterchardy Intermountain 8 = Other (Specify)  3 = Southeast 4 = Southwest 5 - Moderately Winterchardy Intermountain 8 = Other (Specify)			ALFALF	A (Medicago sativa s	ensu Gunn et al.)			*
ADDRESS (Street and No., or R.F.D. No., City, Start, and Zip Code)  POR OFFICIAL USE ONLY PYPO NUMBER  9 7 0 0 2 7 8  PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place numbers in the boxes to designate the expressions which are characteristic of the manifest generate application was yet, Data for quantitutive plant characters should be based on a minimum of 100 plants. Include leading zeros when necessary (e.g., CE 18 19 1) if continued the described from varieties entered in the same trial. Plant color may be precisely designated by using any recognized color (e.g., The Mennell Plant Tissue Color Clarks.  1. WINTERHARDINESS:      1	NAME OF APPLICANT(S)			TEMPORARY	DESIGNATION	VARIETY NAM	<u> </u>	
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place numbers in the boxes to designate the expressions which are characteristic of the competing general application variety. Date for quantitative plant claracters should be based on a minimum of 100 plants. Include leading zeros when necessary (e.g., [3] [3] [5] [5] [5] [5] [5] [5] [5] [5] [5] [5				FG 30	620	DK140		
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Place numbers in the boxes to designate the expressions which are characteristic of the competing general application variety. Date for quantitative plant characters should be based on a minimum of 100 plants. Include leading zeros when necessary (e.g., [1] \$1 3 1 5 1 total variety and the same trial. Plant color may be precisely designated by using any recognized color e.g., the Minnell Plant Tissue Color Chara.  1. WINTERHARDHEES:  8 CLASS: 1 - Very Non-Winterhardy (CUF 101) 3 - Intermediately thors/minerhardy (Medilla) 5 - On Publy 7 - (Rangel) 8 - Winterhardy (Varnell) 8 - Winterhardy (Varnell) 9 - Extremely Winterhardy (Medilla) 8 - Winterhardy (Varnell) 1 - Control West Salem, WI  1 - Very Roman Color of Plant Color	4000000000							
PLEASE READ ALL INSTRUCTIONS CAREFULLY: Piece numbers in the boxes to designate the expressions which are characteristic of the commercial generatic application variety. Date for quanticative plant claracters should be based on a minimum of 100 plants. Include leading zeros when necessary (e.g., [ST 87]) for the following of the determined from varieties entered in the mine trial. Plant color may be precisely designated by using any recognited color clarks.    NUMTERIADDINESS   1 - Very Non-Winterhardy (CLIF 101)   2 - Non-Winterhardy (Manager States)   4 - Semi-Winterhardy (Manager States)   4 - Semi-Winterhardy (Manager States)   5 - (Dar Pults)   2 - Non-Winterhardy (Manager States)   6 - (Dar Pults)   2 - (Dar Pults)   2 - (Dar Pults)   4 - Semi-Winterhardy (Manager States)   6 - (Dar Pults)   2 - (Dar Pults)   4 - Semi-Winterhardy (Manager States)   6 - (Dar Pults)   7 - (Dar	AUURESS IStreet and No., or R.F.	D. No., City, State, and	Zip Code)				FOR OFFICIAL USE C	NLY
Testino (Institution Date of Comparative das should be determined from varieties entered in the amer trial. Plant color may be precisely designated by using any recognized color (E., The Monsell Plant Times Color Charts.  WINTERNABNES:    ** Very No.Winterhardy (Cut-101)	·		·			PVPO NUMBER	9700	278
Testino (Institution Date of Comparative das should be determined from varieties entered in the amer trial. Plant color may be precisely designated by using any recognized color (E., The Monsell Plant Times Color Charts.  WINTERNABNES:    ** Very No.Winterhardy (Cut-101)	PLEASE READ ALL INSTRU	TIONS CAREEIU I	V. Dl	.1 1			!	1
Testing institution  Date of Date Genetics  Pall Dormancy:  FALL Dormancy:  FA	application variety. Data for q	uantitative plant char	acters should be based	d on a minimum of 1	100 plants. Include le	isding zecor when r	accessors to a 101	R OT V for own
1. WINTERHARDINESS:  8 CLASS: 1 = Very Non-Winterhardy (NUIT) 3 = Intermediately Non-Winterhardy (Mellia) 5 = (Ou Pulis) 7 = [Ranger] 8 = Extremely Winterhardy (Mentalia) 6 = Modernely Winterhardy (Saranec) 8 = Winterhardy (Vernal) 8 = Winterhardy (Vernal) 8 = Winterhardy (Vernal) 8 = Winterhardy (Vernal) 9 = Extremely Winterhardy (Nonsenson) TEST LOCATION: West Salem, WI  TEST LOCATION:  DATE OF DATE REGROWTH AST CUT  DATE OF DATE REGROWTH AST CUT  AND LOCATION  DATE OF DATE REGROWTH AST CUT  APPLICATION VARIETY Vernal Ranger Sarane VARIETY Vernal Ranger Sarane Series was appropriate.  Forage Genetics 9 / 95	mente nate: Combatative data	zironto de determine	d from varieties enter	ed in the same trial.	Plant color may be p	recisely designated	by using any recogn	ized color chart,
8 CLASS:  1 = Very Non-Winterhardy (CUF 101) 3 = Intermediately Non-Winterhardy (Mallita) 5 = four Puls) 5 = four Puls) 5 = four Puls) 6 = Kond-Winterhardy (Marchy (Lafontan) 6 = Moderately Winterhardy (Sarance) 8 = Winterhardy (Vernal)  TEST LOCATION:  West Salem, WI  2. FALL DORMANCY:  FALL DORMANCY (DETERMINED FROM SPACED PLANTINGS)  TESTING INSTITUTION AND LOCATION  DATE OF AND ANT REGROWTH SCORE ON AVERAGE HEIGHT AND LOCATION  APPLICATION  CHECK VARIETIES*  LE  Forage Genetics 9/95 10/95 10.2 5.1 8.0 11.3 2.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moaps 69, Mesilfa, Labonten, Du Puils, Sirance, Ranger, Vernal, or Norseman as appropriat	Cig., The Mansell Fight Tissue C	olor Charts,		<u> </u>				
3 - Intermediately Non-Winterhardy (Medila) 6 - (Ou Pulis) 7 - (Ranger) 9 - Extremely Winterhardy (Normana) TEST LOCATION: West Salem, WI  TEST LOCATION: West Salem, WI  TEST LOCATION: DATE OF AND LOCATION AND LOCATION DATE OF AND LOCATION LAST CUT AND LOCATION DATE OF AND LOCATION LAST CUT AND LOCATION DATE OF AND LOCATION LAST CUT AND LOCATION LAST CUT AND LOCATION DATE OF AND LOCATION LAST CUT AND LOCATION LAST CUT APPLICATION VARIETY Vernal Ranger Saranac CUF 101, Moape 69, Medila, Labonetan, Du Fults, Saranac, Ranger, Vernal, or Norseman as appropriate.  CUF 101, Moape 69, Medila, Labonetan, Du Fults, Saranac, Ranger, Vernal, or Norseman as appropriate.  Tinches of regrowth  Test (CUF 101) Test (C						,		
TEST LOCATION: West Salem, WI  PALL DORMANCY: FALL DORMANCY (DETERMINED FROM SPACED PLANTINGS)  TESTING INSTITUTION DATE OF LAST CUT DATE OF L	O CLASS:	3 ≈ Intermediately No- 5 ≈ (Du Puits)	ardy (CUF 101) n-Winterhardy (Mesilla)	4 = Semi-Winte	rhardy (Lahontan)			
TESTING INSTITUTION DATE OF LAST CUT DATE REGROWTH SCORED PLANTINGS)  REGROWTH SCORED PLANTINGS  REGROWTH SCORE OR AVERAGE HEIGHT  CHECK VARIETTS*  Vernal Ranger Saranac.  Forage Genetics 9/95 10/95 10.2 5.1 8.0 11.3 2.  CUF 101, Moapa 69, Mesilla, Lahontan, Du Puits, Saranac, Ranger, Vernal, or Norseman as appropriate.  Forage Genetics 10/95 10.2 5.1 8.0 11.3 2.  CUF 101, Moapa 69, Mesilla, Lahontan, Du Puits, Saranac, Ranger, Vernal, or Norseman as appropriate.  Inches of regrowth  Inches of regrowth  I = freet CUF 101) 3 = Semierot (Mesilla) 5 = Intermediate (Saranac) 7 = Semidecumbent (Vernal) 9 = Obecumbent (Norseman) 5 = Intermediate (Saranac) 7 = Slow (Vernal) 9 = Very State (Use 101) 3 = Fast (Saranac) 5 = Intermediate (Ranger) 7 = Slow (Vernal) 1 = Very Fast (CUF 101) 3 = Fast (Saranac) 5 = Intermediate (Ranger) 7 = Slow (Vernal) 1 = North Central West Salem, WI  AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Moderately Winterhardy Intermountsin 6 = Winterhardy Intermountsin 7 - Great Plains 3 = Other (Specify)		-	ardy (Norseman)	8 = Winterhard	v (Vernal)	•		
TESTING INSTITUTION AND LOCATION  DATE OF LAST CUT  DATE REGROWTH SCORED  APPLICATION VERTAL  REGROWTH SCORE OR AVERAGE HEIGHT CHECK VARIETY:  Vertal Ranger Saranac  Torage Cenetics  9/95  10/95  10.2  5.1  8.0  11.3  2.  CUF 101, Mospo 66, Mesilla, Lahontao, Du Pulis, Saranac, Ranger, Vernal, or Norseman as appropriate, Decify scoring system used:  Inches of regrowth  5. Fall Growth Habit (Determined from Fall Dormancy Trials)  1 = Erest (CUF 101) 7 = Semidecumbent (Vernal) 9 = Occumbent (Norseman) 9 = Occumbent (Norseman) 9 = Occumbent (Norseman) 9 = Very Story (Norseman) 1 = Very Fast (CUF 101) 9 = Very Story (Norseman) West Salem, WI  AREAS OF ADAPTATION N. U.S. (Where tested and proven adapted):  1 = North Central 5 = Moderately Winterheardy Intermountain 8 = Other (Specify)  3 = Southeast 4 = Southwest 7 - Great Plains 3 = Other (Specify)				em, WI		<del></del>		
TESTING INSTITUTION AND LOCATION  DATE OF LAST CUT  DATE REGROWTH SCORED  APPLICATION VERTAL  REGROWTH SCORE OR AVERAGE HEIGHT CHECK VARIETY:  Vertal Ranger Saranac  10.95  10.95  10.2  5.1  8.0  11.3  2.  CUF 101, Mospa 69, Mesilla, Lahontan, Ou Fults, Saranac, Ranger, Vernal, or Norseman as appropriate.  TINCHES OF TESTOWth  The Sended combent (Vernal)  1 = Erect (CUF 101) 2 = Sended combent (Vernal) 9 = Occumbent (Messilla) 9 = Occumbent (Messilla) 1 = Very Fast (CUF 101) 9 = Very Stow (Morseman) 1 = Very Fast (CUF 101) 9 = Very Stow (Morseman) West Salem, WI  AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 = North Central 5 = Moderately Winterhearly Intermountain 8 = Other (Specify)  3 = Southeast 4 = Southwest 7 - Great Plains 4 = Southwest 7 - Great Plains 3 = Other (Specify)	Z. FALL DORMANCY:		· My					<del> </del>
TESTING INSTITUTION AND LOCATION  DATE OF LAST CUT  SCORED  APPLICATION Vernal Ranger Saranac  Forage Genetics 9/95 10/95 10.2 5.1 8.0 11.3 2.  CUF 101, Mospa 68, Mesilia, Lahontan, Du Puits, Saranac, Ranger, Vernal, or Norseman as appropriate,  precity scoring system used:  Inches of regrowth  1 = Feet (CUF 101) 3 = Samilercet (Mesilia) 9 = Decumbent (Norseman) 5 = Intermediate (Saranac)  RECOVERY AFTER FIRST SPRING CUT (in Southwest, first cut after March 21):  3 = Fast (Saranac) 5 = (Intermediate (Ranger) 7 = Slow (Vernal) 12 = Very Fast (CUF 101) 3 = Fast (Saranac) 5 = (Intermediate (Ranger) 7 = Slow (Vernal) 12 = Very Fast (CUF 101) 3 = Fast (Saranac) 5 = (Intermediate (Ranger) 7 = Slow (Vernal) 12 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Noderately Winterhardy Intermountain 8 = Other (Specify) 1 = North Central 1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Noderately Winterhardy Intermountain 8 = Other (Specify) 1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Noderately Winterhardy Intermountain 8 = Other (Specify) 1 = North Central 1 = North Central 1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Noderately Winterhardy Intermountain 1 = North Central 1 = North Cen		F	ALL DORMANCY (I	DETERMINED FRO	M SPACED PLANTI	INGS)		
AND LOCATION  LAST CUT  SCORED  APPLICATION VARIETY  Vernal  Ranger  Saranac  Forage Genetics  9/95  10/95  10.2  5.1  8.0  11.3  2.  CUF 101, Mospa 69, Mesilla, Labontan, Du Puits, Saranac, Renger, Vernal, or Norseman as appropriate.  Decly scoring system used:  Inches of regrowth  I = Frect (CUF 101) 7 = Semidecumbent (Vernal)  9 = Decumbent (Morseman) 9 = Decumbent (Morseman) 9 = Very Fast (CUF 101) 9 = Very Slow (Norseman) TEST SPRING CUT (in Southwest, first cut after March 21):  3	TECTINO INCRETUTION				REGROWTH SCORE	OR AVERAGE HEIG	нт	
Forage Genetics 9/95 10/95 10.2 5.1 8.0 11.3 2.  CUF 101, Mospo 69, Mesilla, Lahontan, Du Puiti, Saranac, Ranger, Vernal, or Norseman as appropriate.  Decity socing system used: Inches of regrowth  5 Fall Growth Habit (Determined from Fall Dormancy Trials)  1 = Frect (CUF 101) 7 = Samidecumbent (Vernal) 9 = Decumbent (Norseman) 9 = Decumbent (Norseman) 9 = Very Stow (Norseman) 9 - Very Stow (Norseman) 9 - Very Stow (Norseman) West Salem, WI  AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 = North Central 2 = East Central 5 = Moderately Winterhardy Intermountain 8 - Other (Specify)  3 - Southeast 4 - Southwest 7 - Great Plains 3 - Great Plains 3 - Great Plains				APPLICATION		CHECK VARIETI	ES*	LSD .05
CUF 101, Moapa 69, Mesilla, Lahontan, Du Puits, Saranac, Ranger, Vernal, or Norseman as appropriate,  Decity scoring system used:  Inches of regrowth  Inches of regrowth  Inches of regrowth  I = Frect (CUF 101)  I = Frect (CUF 101)  I = Semidecumbent (Vernal)  I = Semidecumbent (Vernal)  I = Very Fast (CUF 101)  I = Ver			_	VARIETY	Vernal	Ranger	Saranac	
Inches of regrowth	Forage Genetics	9/95	10/95	10.2	5.1	8.0	11.3	2.1
Securing system used: Inches of regrowth	·							
Inches of regrowth								
5 Fall Growth Habit (Determined from Fall Dormancy Trials)  1 = Erect (CUF 101) 7 = Semidecumbent (Vernal) 9 = Decumbent (Norseman)  RECOVERY AFTER FIRST SPRING CUT (In Southwest, first cut after March 21):  3				eman as appropriate.				· ·
1 = Erect (CUF 101) 7 = Semidecumbent (Vernal) 9 = Decumbent (Norseman)  RECOVERY AFTER FIRST SPRING CUT (In Southwest, first cut after March 21):  3 = Fast (Saranac) 5 = Intermediate (Saranac)  1 = Very Fast (CUF 101) 9 = Very Slow (Norseman)  West Salem, WI  TEST LOCATION:  1 Primary Area of Adaptation  1 = North Central 1 = North Central 2 = East Central 5 = Winterhardy Intermountain 8 = Other (Specify)  3 = Semierect (Mesilla) 9 = Decumbent (Norseman) 5 = Intermediate (Saranac) 5 = Intermediate (Saranac) 7 = Slow (Vernal) 1	pecify scoring system used:	Inches of 1	egrowth	· · · · · · · · · · · · · · · · · · ·	******	<del></del>		<del>.</del> .
RECOVERY AFTER FIRST SPRING CUT (In Southwest, first cut after March 21):  3	5 Fall Growth Habit (Dete	rmined from Fall Dorm	ancy Trials)		."			
RECOVERY AFTER FIRST SPRING CUT (In Southwest, first cut after March 21):  3					5 = Intermediate	(Saranac)		
1 = Very Fast (CUF 101) 9 = Very Slow (Norseman) TEST LOCATION: West Salem, WI  AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 Primary Area of Adaptation  1 = North Central 5 = Moderately Winterhardy Intermountain 8 = Other (Specify)  3 = Fast (Saranac) 5 = Intermediate (Ranger) 7 = Slow (Vernal) 8 = Other (Specify)								
TEST LOCATION:  West Salem, WI  AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 Primary Area of Adaptation  1 = North Central  5 = Intermediate (Ranger)  7 = Slow (Vernal)  4 = Southeast  5 = Moderately Winterhardy Intermountain  8 = Other (Specify)  3 = Fast (Saranac)  5 = Intermediate (Ranger)  7 = Slow (Vernal)	[3]		first out after March 21	):	<b>V</b>			
AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 Primary Area of Adaptation  2 Other Areas of Adaptation  1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Moderately Winterhardy Intermountain 6 = Winterhardy Intermountain 7 = Great Plains 3 = Other (Specify)	1 - 4-17 -	ow (Norseman)			5 = Intermediate	(Ranger)	7 = Slow (Vernal)	
AREAS OF ADAPTATION IN U.S. (Where tested and proven adapted):  1 Primary Area of Adaptation  2 Other Areas of Adaptation  1 = North Central  2 = East Central  3 = Southeast  5 = Moderately Winterhardy Intermountain  8 = Other (Specify)  4 = Southwest  7 = Great Plains	TEST LOC	ATION:	st Salem, WI					
1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Moderately Winterhardy Intermountain 6 = Winterhardy Intermountain 7 = Great Plains 3 = Other (Specify)					i i	<del>-</del>		<u> </u>
1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Moderately Winterhardy Intermountain 6 = Winterhardy Intermountain 7 = Great Plains 3	<u> </u>		en adapted):					
1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Moderately Winterhardy Intermountain 6 = Winterhardy Intermountain 7 = Great Plains 8 = Other (Specify)	Primary Area of Adaptat	on '			2 Othe	er Areas of Adaptation	n	
1 = North Central 2 = East Central 3 = Southeast 4 = Southwest 5 = Moderately Winterhardy Intermountain 6 = Winterhardy Intermountain 7 = Great Plains 8 = Other (Specify)	· ·							
5 = Moderately Winterhardy Intermountain 6 = Winterhardy Intermountain 7 = Great Plains 8 = Other (Specify)						,	Theres	. D.
8 = Other (Specify)						7		2
- Arand				O - Militerilation little	mountain	F Great Plains	(TITELLY)	4
					•	4		∰ ³
							Mr3	$\mathcal{J}$
	•						-	
LOWERING DATE (When 10% of plants possess open flowers at time of first spring cut):	LOWERING DATE (When 10% of	plants possess open flow	rers at time of first spring	g cut):				
Days Earlier Than	· • •							
Same As	Same As		1 = CUF	101 2	= Mesilla 3	= Saranac 4	≂Vernal 5≖1	Vorseman
Days Later Than	Days Later Than				_		- •	
Nampa, ID		TEST LOCATION:	Nampa	a, ID				2

FORM LS-470-32 (4-85) (Edition of 4-82 may be used.)

6. PLANT COLOR (Determined	the state of the s						
لسا		2 = Dark Green	•	3 = Light Green (	Ranger)		
	ALUE (Specify chart used;					* .	
APPLICATION V	i						
TEST LOCATION	•		· · · · · · · · · · · · · · · · · · ·		<del></del>		
7. CROWN TYPE (Determined		<del></del>				· · · · · · · · · · · · · · · · · · ·	
Noncreeping T	ypes: 1 = Broad (1	/ernal)	2 = Intermediate (S	Saranac)	3 = Narrow (CL	JF 101)	
Creeping Types	: 4 = Creeping	Rooted (Rangel	ander)	5 = Rhizometous	(Rhizoma)		
8. FLOWER COLOR (Determine to 9 1 % Purple and V	ine frequency of plants for e iolet (Subclasses 1.1 to 1.4)		defined by USDA A	70	No. 424 (Barne asses 2.3 and 2.		ill plants in plot to flower):
009 % Variegated O	ther Than Blue (Subclasses :	2.1, 2.2, 2.5 to 2	0 O	0 % Yellow (Sub	classes 4.1 to 4	.4)	
000 % Cream (Class	Maran - 7	-T\	ماما	% White (Class	5)		
TEST LOCATIO	200: <u> </u>		•				
9. POD SHAPE (Determine free	quency of plants with the for I (One or more coils, center			12		re coils, center con	raigroundy openi
000 % Sickle (Less th						ampa, ID	
10. PEST RESISTANCE: Provid	e in the appropriate column	, trial date for a	pplication variety, an	d resistant (R) and sus	ceptible (S) che	ck varieties, synthe	etic generation tested, average severity
evatus	tion. Describe scoring syste	m, and any test	procedure which diffe	ers from standard meti	test, year, and lods proposed i	location of test, as by Elgin (1982). T	nd whether test is a field or laboratory rial data from other test years or
location	ons should be presented who	mever available o	n a separate docume	nt as Exhibit D.			1, Rm. 335, BARC-West, Beltsville, MD .
20705 presen	. Aithough comparisons wi	th check varieties	s listed below are pre-	ferred, comparisons wi	th any appropr	iate check variety	recommended by Elgin (1982) may be
A. DISEASE RESISTANCE: DISEASE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Anthracnose, Race 1 (Colletotrichum trifolii)	Application	1	64	100		<u> </u>	Forage Genetics
	Arc (R)		65 √	100		9.7	1995 West Salem, WI
	Saranac (S)		0√	100			Lab Test
	SCORING SYSTEM:	Stand	ard Test				
Anthracnose, Race 2 (Collectotrichum trifolii)	Application	· ·			2.		
	Saranac AR (R)	j					
	Arc (S)	~					
	SCORING SYSTEM:			<u> </u>		÷.	
			·		· · · · · · · · · · · · · · · · · · ·	%	
Bacterial Wilt (Corynebacterium insidiosum)	Application	2	69	120	1.28		Forage Genetics
	Vernai (R)		42√	120	2.08	0.33	1996 West Salem, WI
	Norragensett (S)- SOII	ora (S)	1√	120	4.23		√ Field Test
	SCORING SYSTEM:	Stand	lard Test	- Field			
Common Leafspot (Pseudopeziza medicaginis)	Application						
	MSA-CW3AN3 (R)						
	Ranger (S)						
	SCORING SYSTEM:		l	<u> </u>			<u></u>
							•

10. A. PEST RESISTANCE	Continued):	e a a a	e tari				
DISEASE	VARIETY	SYN. GEN. TESTED	PERCEN RESISTAI PLANTS	NT NUMBER OF	D ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Downy Mildew [Peronospora trifoliorum]	Application						
Isolate, if known:	Saranac (R)		1				
	- Kanza (S)	:					
	SCORING SYSTEM:			· · · · · · · · · · · · · · · · · · ·			
Fusarium Wilt (Fusarium oxysporum 1. medicaginis)	Application	2	87	120	1.08		
	Мо <del>ара 69 (R)</del> А	gate (R)	54√	120	1.81	0.34	Forage Genetics
	Narragansett (RI) MI	NGN-1 (S)	3 √	120	4.04	1	West Salem, WI √Field Test
	SCORING SYSTEM:	Standar	d Test -	Field		<u> </u>	
Phytophthora Root Rot (Phytophthora megasperma f. medicaginis)	Application	1	66→ 86	ox 100			
	Agate (R)		<del>33</del> →47	100		17.5	Forage Genetics 1995
	Saranac (S)		0 \	100			West Salem, WI √Lab Test
	SCORING SYSTEM:	Standar	d Test√	1	<u>.l</u>		
Verticillium Wilt (Verticillium alboatrum)	Application	2	36	100			
	Vertus (R)		40 √	100		12.4	Forage Genetics 1996
	Saranac (S)		2√	100		12.4	West Salem, WI Lab Test
	SCORING SYSTEM:	Standar	1 Test				
Other (Specify) Aphanomyces	Application	1	55	100			
Root Rot	(R) WAPH-1 (F	2)	50 ✓	100		12.5	Forage Genetics
(A. euteiches	(S) Agate (S)		2 🗸	100		1,2,5	1996 West Salem, WI
1400 1)	SCORING SYSTEM:			100			Lab Test
Other (Specify)	Application	Standard	Test		- ï	•	
			· ————				
	(R)		· · · · · · · · · · · · · · · · · · ·				
	(S)						
INSECT RESISTANCE:							•
INSECT RESISTANCE:		YN. GEN. TESTED D	PERCENT EFOLIATION	DEFOLIATION IN PERCENT OF RESISTANT CHECK	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION, FIELD OR LABORATORY
Alfalfa Weevil (Hypera postica)	Application					· · · · · · · · · · · · · · · · · · ·	
	urc (R)			100			
s	aranac (S)						
so	ORING SYSTEM:			<u>.</u>			

		SYN. GEN.	PERCENT	NUMBER OF			4440
INSECT	VARIETY	TESTED	SEEDLING SURVIVAL	SEEDLINGS	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Blue Alfalfa Aphid (Acyrthosiphon kondoi)	Application	:					
	CUF 101 (R)	-					
	PA-1 (S)						
	SCORING SYSTEM:						
Pea Aphid (Acyrthosiphon pisum)	Application	1.	45	100	T		The state of the s
• •	Kanza (ft) CU	F 101 (R)	55√	100		14.2	Forage Genetics
	Ranger (S) Ve	rnal (S)	4 🗸	100			Nampa, ID Lab Test
	SCORING SYSTEM:	Standa	rd Test				
Spotted Alfalfa Aphid (Theriosphis maculata)	Application	2	56	100			Forage Genetics
Biotype, if known:	<del>Kanza (Ft)</del> CU	F 101 (R)	60✓	100		12.6	1996 Nampa, ID
	Ranger (S) Ar	c (S)	3√	100			Lab Test
	SCORING SYSTEM:	Standa	rd Test				
INSECT	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ASI	ASI LSO .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Potato Leafhopper Yellowing (Empoasca fabae)	Application						
	MSA-CW3An3 (R)						
	Ranger (S)						
	SCORING SYSTEM:	<u>-</u>			<u> </u>		<u> </u>
Other (Specify)	Application						
	(R)			-			
	(S)		, ·	i			
	SCORING SYSTEM:	· · · · · · · · · · · · · · · · · · ·		1	L	- <del>-</del>	
NEMATODE RESISTANCE:	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT	NUMBER OF PLANTS TESTED	ASI	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Northern Root Knot (Meloidogyne hapla)	Application		PLANTS				
	Nev. Syn. XX (R)		·				
	Lahontan (S)						
<u></u>	SCORING SYSTEM:			<u> </u>			<u> </u>

NEMATODE	VARIETY	SYN. GEN. TESTED	PERCENT RESISTANT PLANTS	NUMBER OF PLANTS TESTED	ISA	ASI LSD .05	INSTITUTION, YEAR, LOCATION FIELD OR LABORATORY
Southern Root Knot (Meloidogyne incognita)	Application	·					
	Moapa 69 (R)						
	Lahontan (S)						
	SCORING SYSTEM:						
Stem Nematode (Ditylenchus dipsaci)	Application	1	28	120			Forage Genetics
	<del>Lahonun (R)</del> Ver	nema (R)	60 ✓	120		10.5	1995 West Salem, WI
	Ranger (S)		8 🗸	120			Lab Test
	SCORING SYSTEM:	Star	ıdard Test				
Other (Specify)	Application						
	(R)						
	(S)						

	TI. INDICATE THE VARIETY THAT MOST	CLOSELY RESEMBLES THE APPLICATION	VARIETY FOR EACH OF	THE EAT I AWARD CHARACTERS.
			TABLETT TON CACHOL	THE FULLOWING CHARACTERS:
. '				

CHARACTER VARIETY		CHARACTER	VARIETY	
Winterhardiness	Vernal	Plant Color	Dart	
Recovery After 1st Cut	DK127	Crown Type	DK127	
Area of Adaptation	DK127	Combined Disease Resistance	DK133	
Flowering Date	Saranac	Combined Insect Resistance	DK133	

#### REFERENCES

Barnes, D.K. 1972. A System for Visually Classifying Alfalfa Flower Color. U.S. Dep. Agric. Handb. 424. 18 pp. (Note: Greenish cast of plate 6, A and B is an artifact of printing, actual colors a blend of yellow and white.)

Elgin, J.H., Jr., (ed.). 1982. Standard Tests to Characterize Pest Resistance in Alfalfa Cultivars. U.S. Dep. Agric. Tech. Bull. (In Press).

Gunn, C.R., W.H. Skrdla, and H.C. Spencer. 1978. Classification of Medicago sativa L. using legume characters and flower colors. U.S. Dep. Agric. Tech. Bull. 1574. 84 pp.

Munsell Color Co., 1977. Munsell Plant Tissue Color Charts. Munsell Color Co., Inc. Baltimore.

NOTE: Any additional descriptive information and supporting documentation may be provided as Exhibit D.

## PVP APPLICATION - DK140 ALFALFA, CONTINUED

## **EXHIBIT D** - Additional Description of the Variety

#### Part 1. Winter Survival

DK140 alfalfa has above average winter survival for it's fall dormancy classification. Data was collected using the Winter Survival test from the Green Book (March 1995 Amendment).

Winter survival of DK140 alfalfa (Average Severity Index) - Test conducted by Forage Genetics:

Test Location				-	1. <u>Mavrick</u>				
West Salem , WI Madison, WI>	1 1	5/95 5/95	5/95 5/95	2.3 1.5	1.5 1.6	2.2	0.12	0.59 0.40	11.9 9.9

## Part 2. Multifoliolate Leaf Expression

DK140 alfalfa has high expression of the multifoliolate leaf trait. Data was collected using the Multifoliolate Leaf Expression test from the Green Book (March 1995 Amendment).

Multifoliolate leaf expression of DK140 alfalfa (%ML and M.F.I.) - Test conducted by Forage Genetics at West Salem, WI in the field, 1995.

<u>Variety</u>	Syn <u>Gen</u>	%ML	ML index
DK140	1	91	3.36
1. Proof		88	3.25
2. MultiKing 1		55	2.10
3. Vernal		0 .	1.00
Test mean		88	3.12
L.S.D. (0.05)		7.5	0.41
C.V. (%)	•	9.5	8.80

REPRODUCE LOCALLY. Include form number and date on all reproductions.		FORM APPROVED - OMB NO. 0581-0058
U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE	The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.  Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).	
EXHIBIT E STATEMENT OF THE BASIS OF OWNERSHIP		
1. NAME OF APPLICANT(S)	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER	3. VARIETY NAME
DEKALB Genetics Corporation	9700278	DK140
	AAA 08 Apr 1999	6. FAX (include area code)
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country)	5. TELEPHONE (include area code) (815) 758-3461	(815) 758-4106
3100 Sycamore Road DeKalb, IL 60115	7. PVPO NUMBER 9700278	
8. Does the applicant own all rights to the variety? Mark an "X" in appropriate	block. If no, please explain.	X YES NO
9. Is the applicant (individual or company) a U.S. national or U.S. based compatif no, give name of country		X YES NO
a. If original rights to variety were owned by individual(s), is (are NO If no, give name of country  b. If original rights to variety were owned by a company, is the owned by a company, is the owned by a company.	the original owner(s) a U.S. nation	
11. Additional explanation on ownership (If needed, use reverse for extra space	o):	
		·
PLEASE NOTE:		
Plant variety protection can be afforded only to owners (not licensees) who mee		
<ol> <li>If the rights to the variety are owned by the original breeder, that person mu of a country which affords similar protection to nationals of the U.S. for the</li> </ol>	st be a U.S. national, national of a same genus and species.	UPOV member country, or national
<ol><li>If the rights to the variety are owned by the company which employed the or nationals of a UPOV member country, or owned by nationals of a country w genus and species.</li></ol>	iginal breeder(s), the company mu hich affords similar protection to n	st be U.S. based, owned by ationals of the U.S. for the same
3. If the applicant is an owner who is not the original owner, both the original or		
The original breeder/owner may be the individual or company who directed final for definition.		
According to the Panerwork Reduction Act of 1995, no persons are required to	respond to a collection of inform	ation unless it displays a valid OMB

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